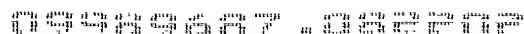


FIG. 1A



**FIG. 1 B**

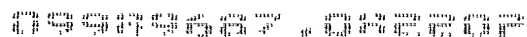
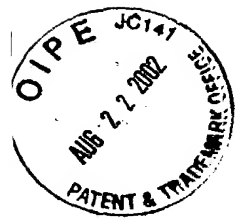


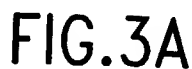
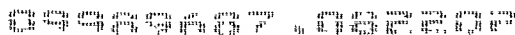
FIG. 2A



68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

AGGCCAAGCCCGTGGTAGATGGAGGCTGGGCACCGTGGGGACCCTGGGGAGAATGTTCTCGGACCTGTGGAGGAGGA  
R P K P V V D G G W A P W G P W G E C S R T C G G G  
GTACAGTTTTCACACCGTGAGTGCAAGGACCCCGAGCCTCAGAATGGAGGAAGATACTGCCTGGGTCTGGAGAGCCAAG  
V Q F S H R E C K D P E P Q N G G R Y C L G R R A K  
TACCAGTCATGCCACACGGAGGAATGCCCCCTGACGGGAAAAGCTTCAGGGAGCAGCAGTGTGAGAAGTATAATGCC  
Y Q S C H T E E C P P D G K S F R E Q Q C E K Y N A  
TACAATTACACTGACATGGACGGGAATCTCCTGCAGTGGGTCCCCAAGTATGCTGGGGTGTCCCCCGGGACCGCTGC  
Y N Y T D M D G N L L Q W V P K Y A G V S P R D R C  
AAGTTGTTCTGCCGAGCCCGGGGGAGGAGCGAGTTCAAAGTGTTGAGGCCAAGGTGATTGATGGCACCTGTGTGGG  
K L F C R A R G R S E F K V F E A K V I D G T L C G  
CCAGAAACACTGGCCATCTGTGTCCGTGGCCAGTGTGTCAAGGCCGGCTGTGACCATGTGGTGGACTCGCCTCGGAAG  
P E T L A I C V R G Q C V K A G C D H V V D S P R K  
CTGGACAAATGCGGGGTGTGTGGGGGCAAAGGCAACTCCTGCAGGAAGGTCTCCGGGTCCCTACCCCCACCAATTAT  
L D K C G V C G G K G N S C R K V S G S L T P T N Y  
GGCTACAATGACATTGTCAACCATCCAGCTGGTGCCACTAATATTGACGTGAAGCAGCGGAGCCACCCGGGTGTGCAG  
G Y N D I V T I P A G A T N I D V K Q R S H P G V Q  
AACGATGGGAACTACCTGGCGCTGAAGACGGCTGATGGGCAGTACCTGCTCAACGGCAACCTGGCCATCTCTGCCATA  
N D G N Y L A L K T A D G Q Y L L N G N L A I S A I  
GAGCAGGACATCTTGGTGAAGGGGACCATCCTGAAGTACAGCGGCTCCATCGCCACCCTGGAGCGCTGCAGAGCTTC  
E Q D I L V K G T I L K Y S G S I A T L E R L Q S F  
CGGCCCTTGCCAGAGCCTCTGACAGTGCAGCTCCTGACAGTCCCTGGCGAGGTCTTCCCCCAAAAGTCAAATACACC  
R P L P E P L T V Q L L T V P G E V F P P K V K Y T  
TTCTTTGTTCTAATGACGTGGACTTTAGCATGCAGAGCAGCAAAGAGAGAGCAACCACCAACATCATCCAGCCGCTG  
F F V P N D V D F S M Q S S K E R A T T N I I Q P L  
CTCCACGCACAGTGGGTGCTGGGGGACTGGTCTGAGTGCTCTAGCACCTGCGGGGCCGGCTGGCAGAGGCGAACTGTA  
L H A Q W V L G D W S E C S S T C G A G W Q R R T V  
GAGTGCAGGGACCCCTCCGGCCAGGCCTCTGCCACCTGCAACAAGGCTCTGAAACCCGAGGATGCCAAGCCCTGCGAA  
E C R D P S G Q A S A T C N K A L K P E D A K P C E  
AGCCAGCTGTGCCCCCTGTGATTGAGGGGGGAGGGGCCAGTCTTGCTCCTGGACATGCGGTACTGAGGTGCAGAC  
S Q L C P L  
AAGGTCTCCACTGTGGTGACTGGGTCCCTTGCCATATCAAGGCAGCACGGGCCACCCAGGCCTCCATTGCCGCAAC  
CCCTCCAGTACTGCACAAATTCCTAAGGGGGAAGAGAAAAGGTATGGGGCGGCAAAACCTATCATCAACTGTCCAWTG  
NAATGGAAC TTGCTCGGGTTCAATTAAGGCATAAGTTAAAGTAAATTCATTATGATCAACAGACCTCACNTCATCTG  
TTGCANGATACAAC TANTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIG.2B



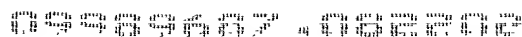
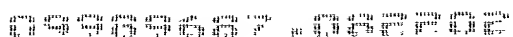


FIG. 3B



776 MYKGMRLRYSGSSAALERIRSFSP LKEPLTIQVLTVCNALRPKIKYTYFV----- METH1  
759 LVKGTILKYSGSIIATLERLQSFRLPEPLTVQLLTVPGVVFPPKMKYTFIFVPNDV---- METH2  
783 IAMGVWEYRDEEDGR-ETLQTMGPLHG--TITVLVTPEGDARISLTYYKMIHEDSLNVDD pNP1

TSP  
 826 ----- KKKKESFNATPTF ----- METH1  
 814 ----- DFSMQSSKERATTNIIQPLL ----- METH2  
 840 NNVLEDDSVGYEWALKKWSPCSKPCGGGSQFTKYGCRRLDHKMVHRGFCDSVSKPKAIR pNPI

TSP  
 839 -----SAWVIEFWGECSKSCE-LGWQRRLVECRDI-----NGQPASECAKEVKP METH1  
 834 -----HAQWVLGDMSECSSTCG-AGWQRRTVECRDP-----SGQASATCNKALKP METH2  
 900 RTCNPQECSPVWVTIGEWEPCSRSCGRTCMQVRSRVCVQPLHNNTTRSVHTKHCNDA-RP pNP1

882 ASTRPCADHPCP-QWQLGEWSSCSKTCGNGYKKRSLKCLSHDG----- METH1  
876 EDAKPCESQLCP-L- METH2  
959 EGRRACNRELCPGRWRAGSSWSQCSMTGNGTQERIPVLCRTADDSFGVCREERPETARICR pNPI

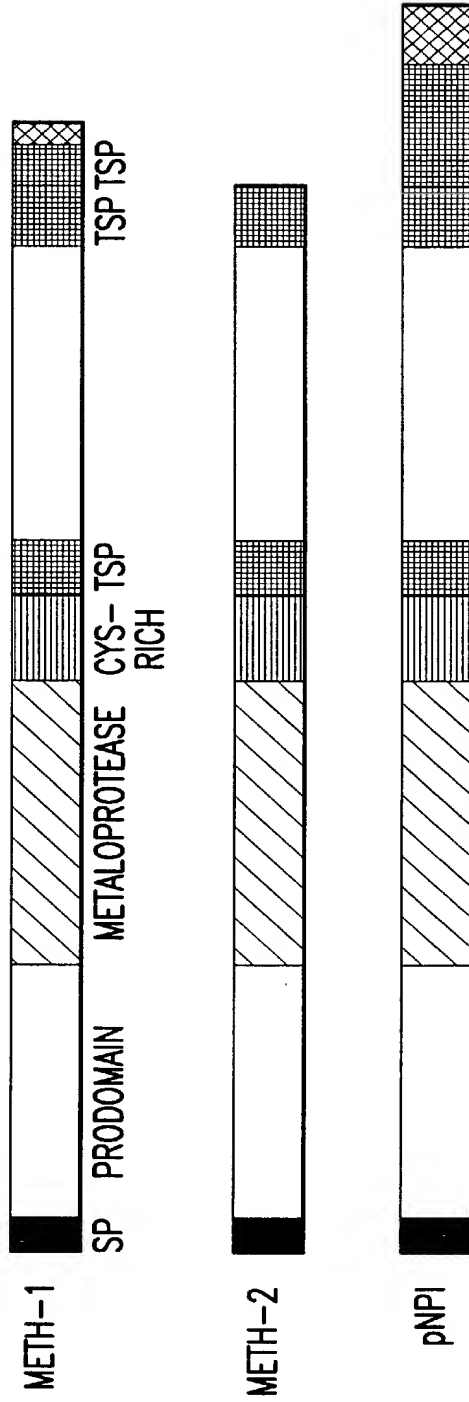
924 -GVLSHESCDPLKK-----PKHFID-----FCTMA----- METH1  
1019 LGPCPRNTSDPSKKSYVVQWLSRPDPINSPVQETSSKGRCQGDKSVFQRMVLSRYCSIPG pNPI

948 -----ECS. METH1  
1079 YNKLCKSCNPHDNLTDVDDRAEPPSGKHNDIEELMPTLSVPTLVMEVQPPPGIPLEVPL pNPI

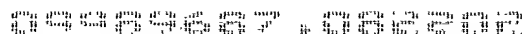
1139 NTSSTNATEDHPETNAVDVPYKIPGLEDEVQPPNLIPRRSPYEKTRNQRIQELIDEMRK pNPI

1199 KEMLGKF pNPI

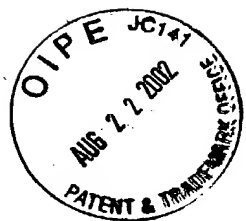
FIG. 3C







**FIG.5**



099999997, 009999997

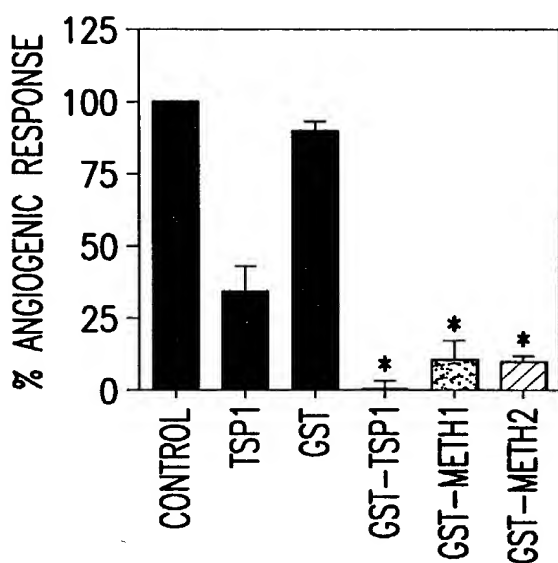


FIG.6A

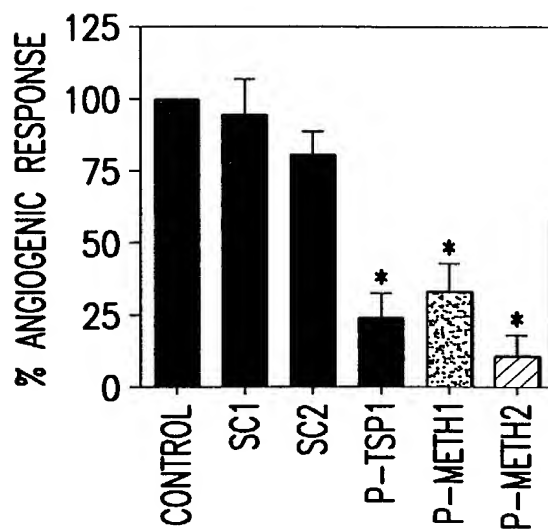


FIG.6B

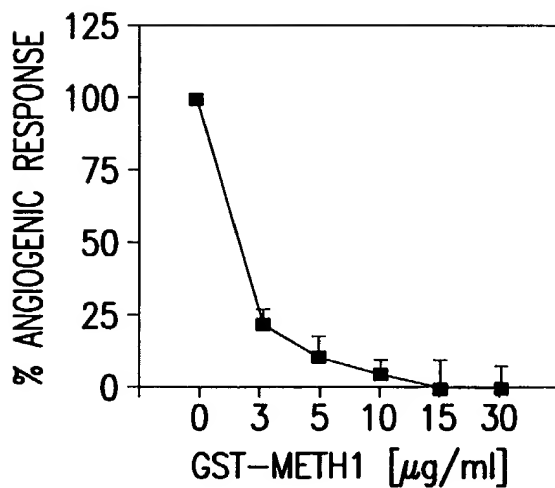


FIG.6C

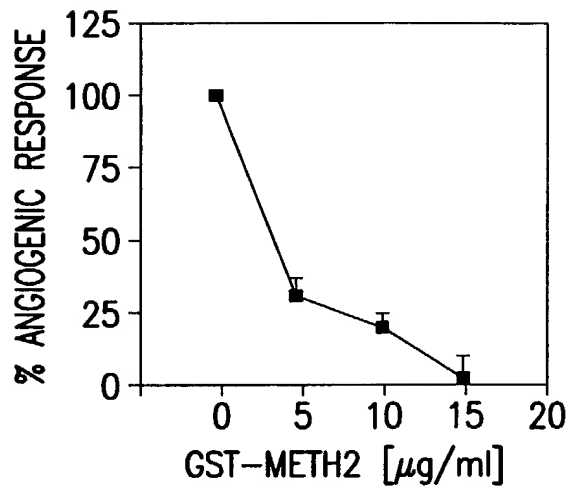


FIG.6D

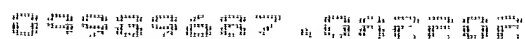
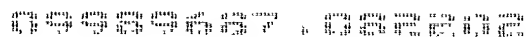


FIG. 7A

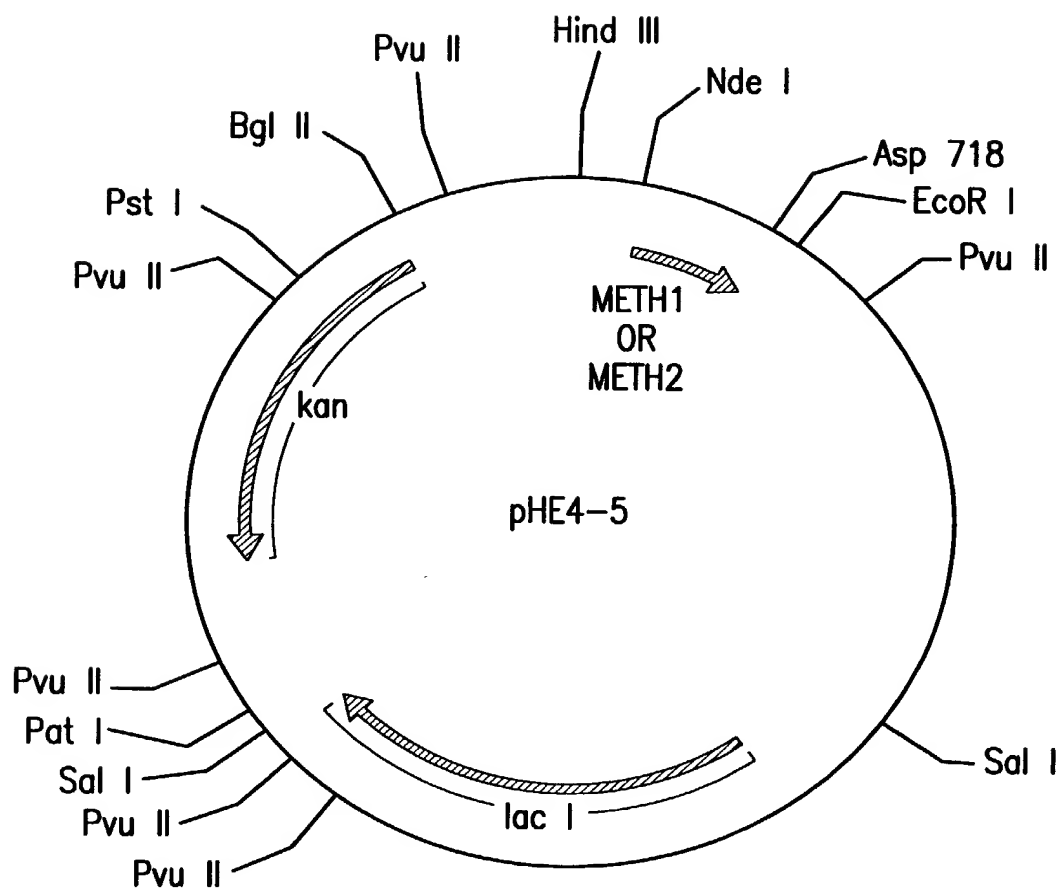
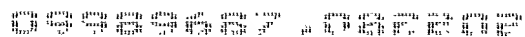
FIG. 7B

FIG. 7C

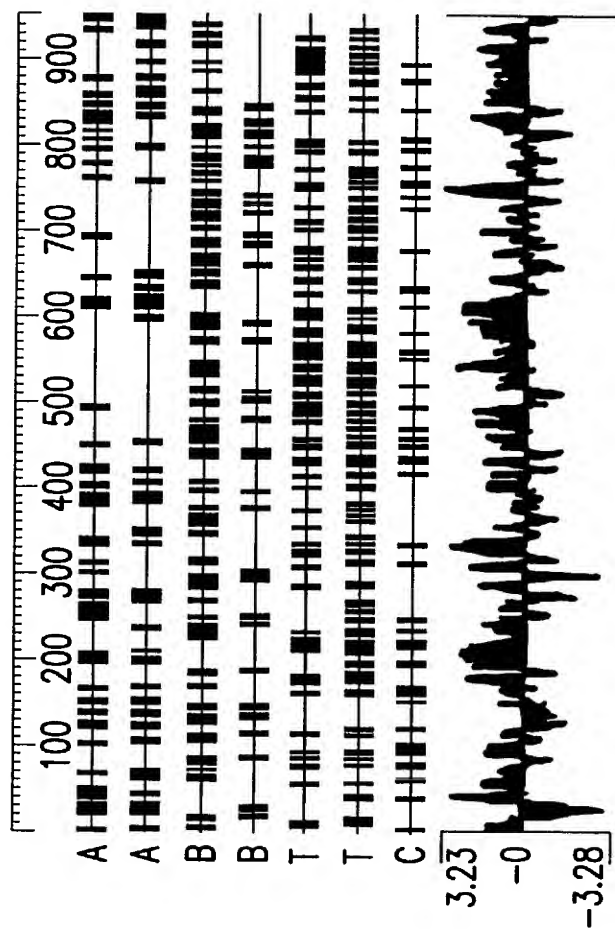
FIG. 7D



**FIG.7E**

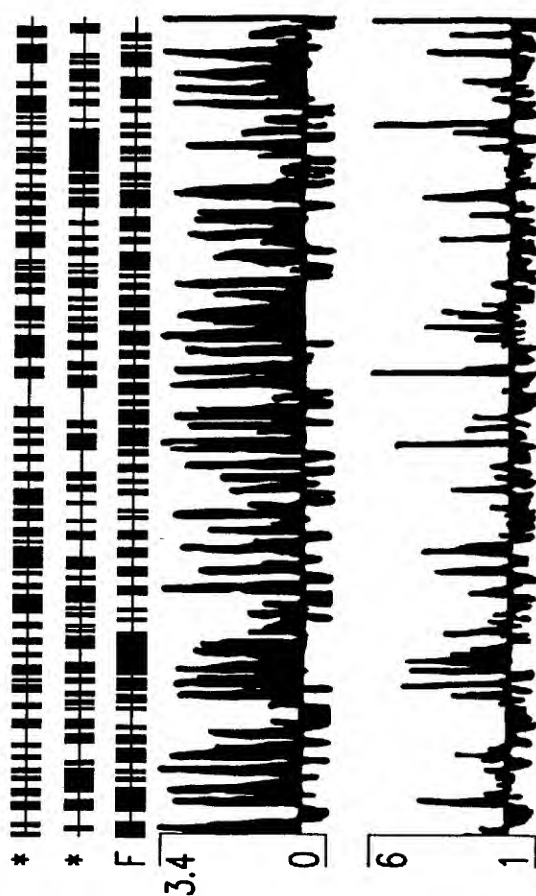






- Alpha, Regions – Garnier–Robson
- Alpha, Regions – Chou–Fasman
- Beta, Regions – Garnier–Robson
- Beta, Regions – Chou–Fasman
- Turn, Regions – Garnier–Robson
- Turn, Regions – Chou–Fasman
- Coil, Regions – Garnier–Robson

■ Hydrophilicity Plot – Kyte-Doolittle



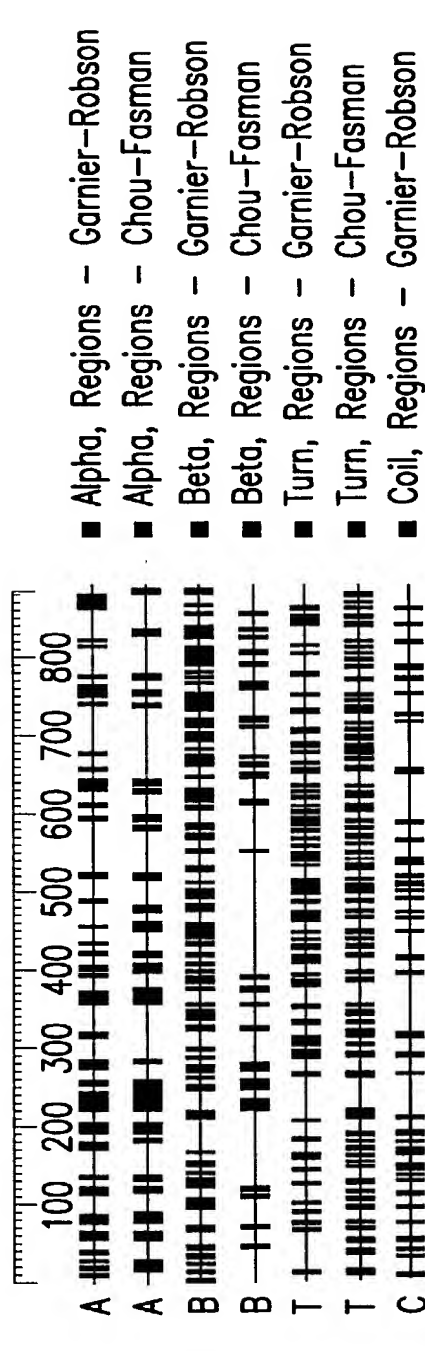
- Alpha, Amphipathic Regions – Eisenberg
- Beta, Amphipathic Regions – Eisenberg
- Flexible Regions – Karplus-Schulz

■ Antigenic Index – Jameson–Wolf

### ■ Surface Probability Plot – Emini

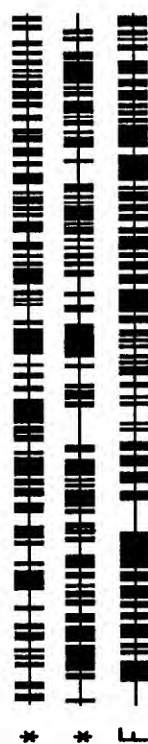
**FIG. 10**

[illegible]



3.34	0	-3.8
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Hydrophilicity Plot - Kyte-Doolittle



3.4 0

19

■ Surface Probability Plot – Emini

**FIG. 11**

[illegible]